

IN THE CLAIMS:

Claims 7, 14, 21, 23, and 24 have been amended herein. Please note that all claims currently pending and under consideration in the above-referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-6 (Canceled)

7. (Currently amended) A rocket motor, comprising:
an insulation material disposed between an inner surface of a case of a rocket motor and a propellant, the insulation material ~~eonsisting of~~ comprising a low-density ethylene propylene diene monomer polymer, at least one flame retardant, sulfur, an organic filler selected from the group consisting of polyvinyl chloride, ~~polyphenylene sulfide~~, melamine, and a homopolymer of vinylidene chloride, and at least one additive selected from the group consisting of at least one antioxidant, at least one cure accelerator, at least one cure activator, at least one tackifier, and at least one plasticizer.

Claims 8-13 (Canceled)

14. (Currently amended) A method of insulating a rocket motor comprising:
producing an insulation material ~~eonsisting of~~ comprising a low-density ethylene propylene diene monomer polymer, at least one flame retardant, sulfur, an organic filler selected from the group consisting of polyvinyl chloride, ~~polyphenylene sulfide~~, melamine, and a homopolymer of vinylidene chloride, and at least one additive selected from the group consisting of at least one antioxidant, at least one cure accelerator, at least one cure activator, at least one tackifier, and at least one plasticizer; and
applying the insulation material to an inner surface of a case of a rocket motor.

Claims 15-19 (Canceled)

20. (Original) The method of claim 14, further comprising:
curing the insulation material to form an insulation layer positioned between the inner surface of
the case of the rocket motor and a propellant.

21. (Withdrawn-currently amended) An insulation material for use in a rocket motor,
consisting ofcomprising:
a low-density ethylene propylene diene monomer polymer;
at least one flame retardant;
an organic filler selected from the group consisting of polyvinyl chloride, ~~polyphenylene sulfide~~,
melamine, and a homopolymer of vinylidene chloride;
sulfur; and
at least one additive selected from the group consisting of at least one antioxidant, at least one
cure accelerator, at least one cure activator, at least one tackifier, and at least one
plasticizer.

22. (Withdrawn) The insulation material of claim 21, further comprising carbon
black.

23. (Currently amended) The rocket motor of claim 7, wherein the insulation material
further comprises 1.0 parts by weight of carbon black.

24. (Currently amended) The method of claim 14, wherein producing an insulation
material comprises producing the insulation material further comprising 1.0 parts by weight of
carbon black.